

Total No. of Questions : 7]

SEAT No. :

PE-5413

[Total No. of Pages : 2

[6515]-101

First Year M.A./M.Sc.

GEOGRAPHY

GGUT-111 : Principles of Geomorphology

(2019 Pattern) (Semester - I)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Question No.1 is compulsory.
- 2) Attempt any five questions from Q.No.2 to Q.No.7.
- 3) Questions 2 to 7 carry equal marks.
- 4) Draw figures/maps wherever necessary.
- 5) Use of map stencils and calculator is allowed.

Q1) Answer any five of the following:

[10]

- a) What is geomorphology?
- b) Name the branches of geomorphology.
- c) What is temporal scale?
- d) Name the major plates.
- e) Mention the types of faults.
- f) Write any four examples of mass movement.

Q2) a) Explain the nature and scope of geomorphology.

[7]

b) Discuss merits and demerits of Wegener's continental drift theory.

[5]

Q3) a) Discuss the theory of plate tectonics.

[7]

b) Explain the landforms associated with plate tectonics.

[5]

Q4) a) Explain the process of folding and give different types of fold.

[7]

b) Write a note on paleomagnetism.

[5]

Q5) a) Explain physical weathering with suitable examples.

[7]

b) Discuss the slope decline modes of hill slope evolution.

[5]

P.T.O.

- Q6)** a) Explain different drainage network patterns. [7]
b) Describe the landforms produced by river erosion. [5]
- Q7)** Write short notes on any two: [12]
a) Geological time scale
b) Aeolian environment
c) Types of glaciers



Total No. of Questions : 7]

SEAT No. :

PE-5414

[Total No. of Pages : 2

[6515]-102

First Year M.A./M.Sc.

GEOGRAPHY

GGUT-112 : Principles of Climatology

(2019 Pattern) (Semester - I)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Question No.1 is compulsory.*
- 2) *Attempt any five questions from Q.No.2 to Q.No.7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Draw figures/maps wherever necessary.*
- 5) *Use of map stencils and calculator is allowed.*

Q1) Solve any five of the following:

[10]

- a) Define climatology.
- b) What is Albedo?
- c) What is green house effect?
- d) What is Ionosphere?
- e) Define wind.
- f) What is temperature inversion?

Q2) a) Explain the nature and scope of climatology.

[7]

b) Describe the various layers of the atmosphere.

[5]

Q3) a) Explain local winds.

[7]

b) Explain the various types of lapse rate.

[5]

Q4) a) Discuss the hydrologic cycle.

[7]

b) How is humidity measured?

[5]

P.T.O.

- Q5)** a) Explain in detail absolute stability and absolute instability of the atmosphere. [7]
b) Explain effect of atmosphere. [5]
- Q6)** a) Discuss the types and characteristics of fronts. [7]
b) Explain the cyclones and anticyclones. [5]
- Q7)** Write short notes on any two of the following: [12]
a) Types of precipitation
b) Eddy theory
c) Factors affecting Atmospheric pressure



Total No. of Questions : 7]

SEAT No. :

PE-5415

[Total No. of Pages : 2

[6515]-103

First Year M.A./M.Sc.

GEOGRAPHY

GGUT-113 : Principles of Economic Geography
(2019 Pattern) (Semester - I)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Question No.1 is compulsory.
- 2) Attempt any five questions from Q.No.2 to Q.No.7.
- 3) Questions 2 to 7 carry equal marks.
- 4) Draw figures/maps wherever necessary.
- 5) Use of map stencils and calculator is allowed.

Q1) Solve any five of the following:

[5×2=10]

- a) State any four sub-branches of economic geography.
- b) Define the term green revolution.
- c) What is sustainable development?
- d) What do you mean by communication?
- e) State any four IT parks in India.
- f) Give any two characteristics of international trade.

Q2) a) Discuss the major factors affecting on international trade.

[7]

b) Explain the role of communication in economy.

[5]

Q3) a) Explain the scope of Economic Geography.

[7]

b) Discuss the significance of water and land resources in economic development.

[5]

Q4) a) Describe the various tertiary economic activities.

[7]

b) Explain the major assumptions of Weber's Theory.

[5]

P.T.O.

- Q5)** a) Describe the Myrdal's model in detail. [7]
b) Explain the relationship between non-conventional energy resources and sustainable development. [5]
- Q6)** a) Write major advantages and disadvantages of water transportation. [7]
b) Explain the definition and concept of economic development. [5]
- Q7)** Write short notes on any two of the following: [12]
a) Green revolution in India
b) Regional disparity
c) IT industry and economic development



Total No. of Questions : 7]

SEAT No. :

PE-5417

[Total No. of Pages : 2

[6515]-201

S.Y. M.A./M.Sc.

GEOGRAPHY

GGUT-121 : Geoinformatics - I
(2019 Pattern) (Semester - II)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Question No.1 is compulsory.*
- 2) *Solve any five questions from Q.No.2 to Q.No.7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Use of map stencil is allowed.*

Q1) Solve any five of the following:

[10]

- a) Define GIS.
- b) State element of GIS.
- c) Enlist the objective of GIS.
- d) What is map algebra?
- e) Mention major grid operations.
- f) What are conceptual model?

Q2) a) Describe the history of GIS.

[7]

b) What is ratio scale?

[5]

Q3) a) Discuss the local and focal operations.

[7]

b) Give the comparative overview of Raster and Vector data models.

[5]

Q4) a) What are layer and coverage in the process of digitization?

[7]

b) What is quad tree structure?

[5]

P.T.O.

- Q5)** a) Describe the error detection in the process of digitization. [7]
b) Explain manual digitizing with suitable diagram. [5]
- Q6)** a) Describe the spatial data models in GIS. [7]
b) Discuss potential of GIS. [5]
- Q7)** Write short notes on any two of the following : [12]
a) GIS task.
b) Structural query language.
c) Non spatial data.



Total No. of Questions : 7]

SEAT No. :

PE-5418

[Total No. of Pages : 2

[6515]-202

First Year M.A/M.Sc.

GEOGRAPHY

GGUT-122 : Coastal Geomorphology

(2019 Pattern) (Semester - II)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Question No.1 is compulsory.
- 2) Attempt any 5 questions from question 2 to 7.
- 3) Question 2 to 7 carry equal marks.
- 4) Draw figures/maps whenever necessary.
- 5) Use of map stencils and calculator is allowed.

Q1) Solve any five of the following:

[10]

- a) Define wave period.
- b) What is Diurnal tide?
- c) What is regression of sea level?
- d) Define biogenic sediments.
- e) What is Pro-delta?
- f) Give the types of beaches.

Q2) a) Explain the coastal system with respect to spatial and temporal scales.

[7]

b) What are sea waves? Describe the various types of sea waves. [5]

Q3) a) Give an account of wave induced and tide induced currents. [7]

b) Explain Flood and Ebb currents in detail. [5]

Q4) a) Discuss the causes and consequences of sea level change. [7]

b) Discuss various pathways of sediment transport. [5]

Q5) a) Explain the formation, types and morphology of shore platforms. [7]

b) Discuss the morphodynamics of delta. [5]

P.T.O.

- Q6)** a) Give an account of 'Storm hazard management'. [7]
b) Write a note on 'Coastal Regulation Zone'. [5]
- Q7)** Write short note on any two of the following. [12]
a) Coral and coral reefs
b) Wave diffraction
c) Future sea level changes



Total No. of Questions : 7]

SEAT No. :

PE-5419

[Total No. of Pages : 2

[6515]-203

First Year M.A/M.Sc.

GEOGRAPHY

GGUT-123 : Synoptic Climatology
(2019 Pattern) (Semester - II)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Question No.1 is compulsory.
- 2) Attempt any 5 questions from question 2 to 7.
- 3) Question 2 to 7 carry equal marks.
- 4) Draw figures/maps whenever necessary.
- 5) Use of map stencils and calculator is allowed.

Q1) Solve any five of the following:

[5×2=10]

- a) What is meant by synoptic map?
- b) What is meant by Hurricanes?
- c) Define Fronts.
- d) What is meant by Frontolysis?
- e) Give the forms of Precipitation.
- f) What is meant by Cold waves?

Q2) a) Describe the significance of synoptic approach in study of Synoptic Climatology. [7]

b) Explain the collecting system of weather data by Indian Meteorological Department. [5]

Q3) a) Explain the development stages of Thunderstorm. [7]

b) Describe the Air masses of Asia. [5]

Q4) a) Explain the characteristics of Easterly waves. [7]

b) Describe the process of occurrence of Tornadoes. [5]

Q5) a) Explain the formation of Wave cyclone. [7]

b) Explain the process of Precipitation. [5]

P.T.O.

- Q6)** a) Describe the method of weather forecasting. [7]
b) Explain the process of Fog formation. [5]
- Q7)** Write short note on any two of the following. [12]
a) Levels of climatological synthesis
b) Frontal weather
c) Application of synoptic climatology in pollution studies



Total No. of Questions : 7]

SEAT No. :

PE-5420

[Total No. of Pages : 2

[6515]-204

First Year M.A/M.Sc.

GEOGRAPHY

GGUT-124 : Agricultural Geography

(2019 Pattern) (Semester - II)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Question No.1 is compulsory.
- 2) Attempt any 5 questions from question 2 to 7.
- 3) Question 2 to 7 carry equal marks.
- 4) Draw figures/maps whenever necessary.
- 5) Use of map stencils and calculator is allowed.

Q1) Solve any five of the following:

[10]

- a) What is meant by shifting cultivation?
- b) Enlist two determinants of agriculture pattern.
- c) Define Irrigation.
- d) Write two characteristics of Commercial agriculture.
- e) Write two names of Agro-based industry in India.
- f) Define Agriculture Geography.

Q2) a) Describe scope of Agricultural Geography.

[7]

b) How Physical factors affects on Agriculture.

[5]

Q3) a) Explain various types of approaches to study Agricultural Geography.

[7]

b) Which are the problems of Commercial Agriculture?

[5]

Q4) a) How National Agricultural policy helps to develop agriculture.

[7]

b) What are the characteristics of intensive subsistence agriculture?

[5]

Q5) a) Explain J.C weavers crop combination.

[7]

b) Describe role of irrigation in agriculture development.

[5]

P.T.O.

- Q6)** a) Which are the recent changes in agriculture? [7]
b) Explain Agriculture efficiency according to Bhatia's method. [5]
- Q7)** Write short note on any two of the following. [12]
a) Problems of Green Revolution
b) Significance of organic farming
c) Droughts



Total No. of Questions : 7]

SEAT No. :

PE-5421

[Total No. of Pages : 2

[6515]-205

First Year M.A./M.Sc.

GEOGRAPHY

GGUT-125 : Population Geography
(2019 Pattern) (Semester - II)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Question No.1 is compulsory.
- 2) Solve any five question from Q.No.2 to Q.No.7.
- 3) Question 2 to 7 carry equal marks.
- 4) Draw/figures maps wherever necessary.
- 5) Use of map stencils and calculator is allowed.

Q1) Solve any Five of the following:

[5×2=10]

- a) Define the term 'Optimum Population'.
- b) What is sample registration system?
- c) Write the term 'Refugee'.
- d) What do you mean by mortality?
- e) Enlist any two laws of ravenstein's migration.
- f) What do you mean by 'Gender Development Index'?

Q2) a) Describe distribution of population density of the world.

[7]

b) Explain the relation between population and development.

[5]

Q3) a) Discuss the measures of nuptiality in details.

[7]

b) Elaborate the internal migration in India.

[5]

Q4) a) Explain recent trends of mortality in the world.

[7]

b) Critically examine the Malthus theory of population.

[5]

P.T.O.

- Q5)** a) Explain economic and cultural aspect as a composition of population.[7]
b) Write a note on 'Human Development Index'. [5]
- Q6)** a) Give an account of seasonal migration in India. [7]
b) Distinguish between population policy in India and China. [5]
- Q7)** Write a note on (any two): [12]
a) Population Census
b) Causes of Migration
c) Laws of Migration



Total No. of Questions : 7]

SEAT No. :

PE-5422

[Total No. of Pages : 2

[6515]-206

First Year M.A./M.Sc.

GEOGRAPHY

GGUT-126 : Fluvial Geomorphology

(2019 Pattern) (Semester - II)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Question No.1 is compulsory.*
- 2) *Attempt any five questions from Q.No.2 to Q.No.7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Draw figures/Maps wherever necessary.*
- 5) *Use of map stencils and calculator is allowed.*

Q1) Solve any five of the following:

[5×2=10]

- a) Define fluvial geomorphology.
- b) What is laminar flow?
- c) What is meant by overland flow?
- d) Define hydraulic radius.
- e) What do you mean by anabranching channel pattern?
- f) Mention any two types of deltas.

Q2) a) Explain the concept of drainage basin as a geomorphic unit.

[7]

b) Describe the process of channel initiation.

[5]

Q3) a) Discuss the process of gully and channel formation.

[7]

b) Explain the formation of braided channel.

[5]

Q4) a) Describe the subcritical, critical and super critical flow in a river.

[7]

b) Explain the Horton's law of drainage composition.

[5]

Q5) a) Explain the process of sediment entrainment in a channel.

[7]

b) Give a brief account of cross section morphology of a channel.

[5]

P.T.O.

- Q6)** a) Discuss river metamorphism with respect to sedimentary evidences and dating techniques. [7]
b) Explain the formation of gorges and canyons as erosional landforms of bedrock channel. [5]
- Q7)** Write short notes on any two: [12]
a) Scope of fluvial geomorphology.
b) Through flow and pipe flow.
c) Alluvial fans.



Total No. of Questions : 7]

SEAT No. :

PE-5423

[Total No. of Pages : 2

[6515]-207

First Year M.A./M.Sc.

GEOGRAPHY

GGUT-127 : Monsoon Climatology

(2019 Pattern) (Semester - II)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Question No.1 is compulsory.*
- 2) *Attempt any five questions from Q.No.2 to Q.No.7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Draw figures/Maps wherever necessary.*
- 5) *Use of map stencils and calculator is allowed.*

Q1) Solve any five of the following:

[5×2=10]

- a) Define atmospheric pressure.
- b) What is Flohn's concept?
- c) Write full form of NAO in interannual variation.
- d) Which are the different time scales?
- e) What is break period of monsoon?
- f) Define power regression.

Q2) a) Describe effect of topography on Monsoon.

[7]

b) Why oceans are important in the condition of upper atmosphere?

[5]

Q3) a) Explain Indian Ocean Dipole (IOD).

[7]

b) How factors of forecasting are varied?

[5]

Q4) a) Describe offshore vertices.

[7]

b) Explain parametric model.

[5]

Q5) a) Explain Walker circulation.

[7]

b) Describe the thermal concept of origin of Monsoon.

[5]

P.T.O.

- Q6)** a) Describe economic importance of Monsoon. [7]
b) Explain variability of summer monsoon rainfall. [5]
- Q7)** Write short notes on any two of the following: [12]
a) MONEX
b) Tibetan plateau and monsoon
c) Active period of monsoon



Total No. of Questions : 7]

SEAT No. :

PE-5424

[Total No. of Pages : 2

[6515]-208

First Year M.A./M.Sc.

GEOGRAPHY

GGUT-128 : Industrial Geography
(2019 Pattern) (Semester - II)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Question No.1 is compulsory.
- 2) Attempt any five questions from Q.No.2 to Q.No.7.
- 3) Questions 2 to 7 carry equal marks.
- 4) Draw figures/Maps wherever necessary.
- 5) Use of map stencils and calculator is allowed.

Q1) Solve any five questions of the following:

[5×2=10]

- a) Mention the social factors of industrial geography.
- b) What is meant by tourist?
- c) What is decentralization of industry?
- d) Mention any two IT hubs in India.
- e) Define industrial regions.
- f) What is meant by chemical industry?

Q2) a) Explain the nature of industrial Geography.

[7]

b) Describe the socio-cultural factors of industrial location.

[5]

Q3) a) Critically examine Weber's industrial location model.

[7]

b) Describe the Losh's model in detail.

[5]

Q4) a) Explain the problems and prospects of cotton industry in India.

[7]

b) What is Tourism? Explain the problems of tourism industry in India.

[5]

Q5) a) Explain in detail India's industrial policy.

[7]

b) Describe small scale industries in India.

[5]

P.T.O.

- Q6)** a) Explain the industrial regions in Anglo-America. [7]
b) Write the current scenario of IT industry in India. [5]
- Q7)** a) What is MIDC? How MIDC help the economic development of Maharashtra? [7]
b) Describe the problems of agro-based industry in Maharashtra. [5]



Total No. of Questions : 7]

SEAT No. :

PE-5425

[Total No. of Pages : 2

[6515]-209

First Year M.A./M.Sc.

GEOGRAPHY

GGUT-129 : Geography of Rural Settlement

(2019 Pattern) (Semester - II)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Question No.1 is compulsory.*
- 2) *Solve any five questions from Q.No.2 to Q.No.7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Draw figures/Maps wherever necessary.*
- 5) *Use of map stencils and calculator is allowed.*

Q1) Solve any five of the following:

[5×2=10]

- a) What is Migration?
- b) What is Nucleation?
- c) What is mean by morphogenesis of Rural settlement?
- d) Define settlement.
- e) What is Threshold?
- f) Define site of settlement.

Q2) a) Explain the intensity of rural land use.

[7]

b) Describe the water rights system of agriculture.

[5]

Q3) a) Describe the evolution of settlements.

[7]

b) Discuss the factors affecting dispersion and nucleation of settlements.

[5]

Q4) a) Explain the von Thunen's theory of rural land use.

[7]

b) Discuss the socio-economic transformation in rural areas.

[5]

Q5) a) Explain the education occupation and caste system in rural areas.

[7]

b) Explain the social factors affecting rural house types.

[5]

P.T.O.

- Q6)** a) Explain the various house types in Maharashtra. [7]
b) Describe the communiting patterns in rural settlements. [5]
- Q7)** Write short notes on any two of the following : [12]
a) Water rights system of agriculture.
b) Marketing product.
c) Demographic characteristics of rural settlement.



Total No. of Questions : 5]

SEAT No. :

PE-5426

[Total No. of Pages : 2

[6515]-210

First Year M.A./M.Sc.

GEOGRAPHY

GGDT-130 : Geography of Tourism

(2019 Pattern) (Semester - II)

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

- 1) Question No.1 is compulsory.
- 2) Solve any three questions from Q.No.2 to Q.No.5.
- 3) Questions 2 to 5 carry equal marks.
- 4) Draw figures/maps wherever necessary.
- 5) Use of map stencil is allowed.

Q1) Solve any five of the following: [5]

- a) What is tourism?
- b) Define youth hostel.
- c) Name any two national parks in India.
- d) Write any two advantages of eco-tourism.
- e) Which are the geographical attractions in tourism?
- f) What is accommodation?

Q2) a) Explain the concept of recreation and leisure. [6]

b) Discuss the need of tourist guide in tourism. [4]

Q3) a) Discuss various tourism types based on time of travel. [6]

b) Explain Agra as a tourist place. [4]

Q4) a) Describe the various Socio-cultural factors that attract the tourist. [6]

b) Distinguish between house boats and caravans. [4]

P.T.O.

Q5) Write short notes on any four of the following:

[10]

- a) Agro-tourism
- b) Rail Yatirbhavan
- c) Ajanta caves
- d) Need of accommodation in tourism
- e) Tourism and health
- f) Importance of beaches in tourism



Total No. of Questions : 5]

SEAT No. :

PE-5427

[Total No. of Pages : 2

[6515]-211

First Year M.A./M.Sc.

GEOGRAPHY

**GGDT-132 : Geography of Disaster Management
(2019 Pattern) (Semester - II)**

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

- 1) *Question No.1 is compulsory.*
- 2) *Solve any three questions from Q.No.2 to Q.No.5.*
- 3) *Question 2 to 5 carry equal marks.*

Q1) Solve any five of the following: **[5]**

- a) Define disaster.
- b) What is mitigation?
- c) What is Rehabilitation?
- d) What are Geo-physical hazards?
- e) Give any two causes of forest fire.
- f) What is disability?

Q2) a) Explain the formation and effect of tropical cyclones. **[6]**

b) Explain stampedes and how stampedes can be avoided. **[4]**

Q3) a) Elaborate the process of post-disaster management. **[6]**

b) Discuss landslide vulnerability of entire Himalayan Region. **[4]**

Q4) a) Explain the causes and effects of volcanic eruption. **[6]**

b) Discuss any one man-made disaster in detail. **[4]**

P.T.O.

Q5) Write short notes on any four of the following:

[10]

- a) Hydrological drought
- b) Biological disaster
- c) Role of NGO's in disaster management.
- d) Psychological impact of drought
- e) Preventive measures of industrial accidents.
- f) Effects of cyber terrorism



Total No. of Questions : 7]

SEAT No. :

PE-5428

[Total No. of Pages : 2

[6515]-301

S.Y. M.A./M.Sc.

GEOGRAPHY

GGUT-235 : Geoinformatics-II

(2019 Pattern) (Semester - III)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Question No.1 is compulsory.*
- 2) *Solve any five questions from Q.No.2 to Q.No.7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Use of Map stencil is allowed.*

Q1) Solve any five of the following: (Around 20 Words each) **[10]**

- a) Define active remote sensing.
- b) Give the meaning of EMS.
- c) What is geostationary satellite?
- d) Define the sensor.
- e) Write any two types of image resolution.
- f) Name any two aerial photo interpretation elements.

Q2) a) Describe the historical development of Indian remote sensing. **[7]**

b) Write the principles of remote sensing. **[5]**

Q3) a) Explain the major types of sensors. **[7]**

b) Write about IRS satellite series. **[5]**

Q4) a) Write in details about visual interpretation and its keys. **[7]**

b) Describe spectral resolution. **[5]**

Q5) a) Describe the interaction of EMR with Earth surface. **[7]**

b) Write note on types of platforms. **[5]**

P.T.O.

- Q6)** a) Explain Geometry of an aerial photograph. [7]
b) Write types of components of aerial photographs. [5]
- Q7)** Write short notes on any two of the following : [12]
a) Aerial camera
b) Types of resolution
c) Optical mechanical scanners



Total No. of Questions : 7]

SEAT No. :

PE-5429

[Total No. of Pages : 2

[6515]-302

S.Y. M.A./M.Sc.

GEOGRAPHY

**GGUT-236 : Geographical Thoughts
(2019 Pattern) (Semester - III)**

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Question No.1 is compulsory.*
- 2) *Solve any five questions from Q.No.2 to Q.No.7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Use of map stencils is allowed.*

Q1) Solve any five of the following (Around 20 words each): **[10]**

- a) Who is the father of Geography?
- b) Name the book written by Strabo.
- c) What is dualism in Geography?
- d) What is hypothesis in Geography?
- e) Define field survey.
- f) Define Applied Geography.

Q2) a) Write a brief account of Arab Geographer. **[7]**

b) Write contribution of Kant in Geography. **[5]**

Q3) a) Describe dualism between systematic and regional Geography. **[7]**

b) Write a short note on Paradigms in Geography. **[5]**

Q4) a) Describe applications of statistical techniques in Geography. **[7]**

b) Write a note on need of applied Geography. **[5]**

P.T.O.

- Q5)** a) Write a brief account of German school of thought. [7]
b) Write a note on Possibilism. [5]
- Q6)** a) Describe the types of models use in Geographical studies. [7]
b) Write a note on Computer base cartography. [5]
- Q7)** Write short notes any two of the following: [12]
a) Application of Geography in regional planning.
b) Contribution of W.M. Davis in Geography.
c) Experimental studies.



Total No. of Questions : 7]

SEAT No. :

PE-5430

[Total No. of Pages : 2

[6515]-303

S.Y. M.A./M.Sc.

GEOGRAPHY

**GGUT-237 : Tropical Geomorphology
(2019 Pattern) (Semester - III)**

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Question No.1 is compulsory.*
- 2) *Solve any five questions from Q.No.2 to Q.No.7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Use of map stencils is allowed.*

Q1) Solve any five of the following:

[10]

- a) Name various theories of origin of iron in laterites.
- b) What is Inselberg?
- c) Define morphogenetic regions.
- d) State secondary minerals found in the tropics.
- e) Define Pediplain.
- f) Define Weathering.

Q2) a) Explain chemical weathering in the tropics.

[7]

b) Give an account of laterite distribution in India.

[5]

Q3) a) Explain denudation processes in the tropics.

[7]

b) Describe valley forms in the tropics.

[5]

Q4) a) Explain in short 'Landform development in tropical region'.

[7]

b) Explain factors influencing the weathering in tropics.

[5]

P.T.O.

- Q5)** a) Explain formation of planation surfaces. [7]
b) Describe role of tectonics on tropical landform development. [5]
- Q6)** a) Explain the processes of chemical denudation. [7]
b) Describe various divisions of laterite profile. [5]
- Q7)** Write short notes any two of the following: [12]
a) Change in vegetation during quaternary period
b) Tropical coasts
c) Peculiarities of tropical climate



Total No. of Questions : 7]

SEAT No. :

PE-5431

[Total No. of Pages : 2

[6515]-304

S.Y. M.A./M.Sc.

GEOGRAPHY

**GGUT-238 : Applied Climatology
(2019 Pattern) (Semester - III)**

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Question No.1 is compulsory.*
- 2) *Solve any five questions from Q.No.2 to Q.No.7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Use of map stencils is allowed.*

Q1) Solve any five of the following: (Around 20 words each) **[10]**

- a) Define Applied Climatology.
- b) What is Plant stress?
- c) Write any two effects of climate on soil.
- d) What is heating degree day?
- e) Name any two instruments used to measure temperature.
- f) Define urban heat island.

Q2) a) Describe the nature of applied climatology. **[7]**

b) Explain the concepts of evaporation and evapo-transpiration. **[5]**

Q3) a) Discuss the effect of climate on livestock. **[7]**

b) Describe the relationship of construction operations and climate. **[5]**

Q4) a) Explain with examples how climate control human behaviour. **[7]**

b) Describe the problem of urban air pollution. **[5]**

P.T.O.

- Q5)** a) Explain the effect of climate on water transport. [7]
b) How remote sensing is useful in crop condition monitoring? [5]
- Q6)** a) Describe various types of precipitation. [7]
b) State the impacts of urban climate on GEC. [5]
- Q7)** Write short notes any two of the following: [12]
a) Climate impact assessment
b) Climate and human health
c) Application of climatology in engineering operations



Total No. of Questions : 7]

SEAT No. :

PE-5432

[Total No. of Pages : 2

[6515]-305

S.Y. M.A./M.Sc.

GEOGRAPHY

**GGUT-239 : Geography of Rural Development
(2019 Pattern) (Semester - III)**

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Question No.1 is compulsory.*
- 2) *Solve any five questions from Q.No.2 to Q.No.7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Use of map stencil is allowed.*

Q1) Solve any five of the following: (Around 20 words each) **[10]**

- a) Write any two economic factors of rural development.
- b) State any two factors of rural services.
- c) What do you mean by rural demography.
- d) What is NRLM?
- e) Enlist any two schemes for management of tribal area.
- f) What is grass-root planning?

Q2) a) Describe the concept of Rural management. **[7]**

b) Give an account of the concept of rural connectivity. **[5]**

Q3) a) Describe the major issues for regional development in India. **[7]**

b) Bring out the role of government in planning. **[5]**

Q4) a) Describe green revolution and its relation to development. **[7]**

b) Write about the development of NABARD. **[5]**

P.T.O.

- Q5)** a) Give an account of problems of Panchayat Raj. [7]
b) Explain the role of electrification in development of rural areas in detail. [5]
- Q6)** a) Describe the types of planning. [7]
b) Explain the role of cartographic techniques in rural development. [5]
- Q7)** Write short notes any two of the following: [12]
a) NABARD
b) Ralegan Siddi
c) Smart village



Total No. of Questions : 7]

SEAT No. :

PE-5433

[Total No. of Pages : 2

[6515]-306

S.Y. M.A./M.Sc.

GEOGRAPHY

**GGUT-240 : Urban Geography
(2019 Pattern) (Semester - III)**

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Question No.1 is compulsory.*
- 2) *Solve any five questions from Q.No.2 to Q.No.7.*
- 3) *Questions 2 to 7 carry equal marks.*
- 4) *Use of map stencils is allowed.*

Q1) Solve any five of the following: (Around 20 words each) **[10]**

- a) What is Urbanization curve?
- b) What is CBD?
- c) Write any two demerits of growth of urban population.
- d) Who proposed the theory of Rank size rule?
- e) Write any two urban transport problems.
- f) Define urban planning.

Q2) a) Describe significance of Urban Geography. **[7]**

b) Explain contemporary factors of urbanisation. **[5]**

Q3) a) Describe Harris and Ullman models in detailed. **[7]**

b) Explain functional classification of cities. **[5]**

Q4) a) Describe occupational structure of urban population. **[7]**

b) Explain various synonymous used for city region. **[5]**

P.T.O.

- Q5)** a) Explain Christaller's central place theory. [7]
b) Write in brief temporal variation in Urbanization in the world. [5]
- Q6)** a) Describe Urban environmental pollution. [7]
b) Write note on elements of city plan. [5]
- Q7)** Write short notes any two of the following: [12]
a) Nature of Urban Geography
b) Urban Health Problems
c) Sex structure of urban population



Total No. of Questions : 5]

SEAT No. :

PE-5434

[Total No. of Pages : 2

[6515]-307
S.Y. M.A./M.Sc.
GEOGRAPHY
GGUT-242 : Hydrology
(2019 Pattern) (Semester - III)

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

- 1) *Q. No. 1 is compulsory.*
- 2) *Attempt any three questions from Q.No. 2 to Q.No. 5.*
- 3) *Q No. 2 to Q.No. 5 carry equal marks.*
- 4) *Draw figures/maps wherever necessary.*
- 5) *Use to map stencil is allowed.*

Q1) Solve any five of the following. (Around 20 words each) **[5]**

- a) Write definition of Hydrology.
- b) Enlist units of measurement of precipitation.
- c) What is Cyclonic rainfall?
- d) What is mean by interception?
- e) Define evaporation.
- f) What is Hail?

Q2) a) Describe hydrological cycle. **[6]**

b) Write a note on sources of hydrological data. **[4]**

Q3) a) Explain in detail about depression storage. **[6]**

b) Explain orographic rainfall with diagram. **[4]**

P.T.O.

Q4) a) Describe the methods of evaporation control. **[6]**

b) Write a note on Hydrological budget. **[4]**

Q5) Write short notes any two of the following. **[10]**

a) Measurement of hydrological variables

b) Forms of precipitation

c) Evapotranspiration



Total No. of Questions : 5]

SEAT No. :

PE-5435

[Total No. of Pages : 2

[6515]-308
S.Y. M.A./M.Sc.
GEOGRAPHY
GGUT-243 : Watershed Management
(2019 Pattern) (Semester - III)

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

- 1) *Q. No. 1 is compulsory.*
- 2) *Attempt any three questions from Q.No. 2 to Q.No. 5.*
- 3) *Q No. 2 to Q.No. 5 carry equal marks.*
- 4) *Draw figures/maps wherever necessary.*
- 5) *Use to map stencil is allowed.*

Q1) Solve any five of the following. (Around 20 words each) **[5]**

- a) What is watershed management?
- b) What is watershed delineation?
- c) Define precipitation.
- d) What is artificial recharge?
- e) What is integrated watershed development plan?
- f) Name any two artificial barriers in watershed delineation.

Q2) a) Describe the principles of watershed management. **[6]**

b) Write a note on importance of watershed management. **[4]**

Q3) a) Explain size, shape and physiographic characteristics of watershed. **[6]**

b) Write a note on problems of watershed management. **[4]**

P.T.O.

- Q4)** a) Explain the applications of RS and GIS in watershed management. **[6]**
b) Write methods of water conservation. **[4]**

Q5) Write short notes any two of the following. **[10]**

- a) Water budget
- b) Methods of soil conservation
- c) Concept of watershed



Total No. of Questions : 7]

SEAT No. :

PE-5436

[Total No. of Pages : 2

[6515]-401

S.Y. M.A./M.Sc.

GEOGRAPHY

**GGUT-249 : Geography of India
(2019 Pattern) (Semester - IV)**

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Question No.1 is compulsory.
- 2) Solve any five questions from Q.No.2 to Q.No.7.
- 3) Questions 2 to 7 carry equal marks.

Q1) Solve any five of the following:

[10]

- a) Name the group of islands lying in the Arabian sea.
- b) Write any two tributaries of Ganga.
- c) Name the seasons of India.
- d) Define soil degradation.
- e) What is an alpine forest?
- f) Write any two hydroelectric power stations in India.
- g) What is green revolution?

Q2) a) Describe the geographical and relative location of India.

[7]

b) Write in brief about the north Indian plain.

[5]

Q3) a) Explain in detail the Godavari river system.

[7]

b) Write winter season and associated weather conditions in India.

[5]

Q4) a) Discuss the major soil types in India.

[7]

b) Write the distribution of iron ore in India.

[5]

P.T.O.

- Q5)** a) Explain the causes of deforestation in India. [7]
b) Write the distribution of Rice in India. [5]
- Q6)** a) Describe the major industrial regions in India. [7]
b) Explain the growth of population in India. [5]
- Q7)** Write short notes on any two of the following : [12]
a) Mahanadi
b) Jet stream
c) Distribution of coal in India
d) Problems of sugar industry in India



Total No. of Questions : 7]

SEAT No. :

PE-5437

[Total No. of Pages : 2

[6515]-402

S.Y. M.A./M.Sc.

GEOGRAPHY

GGUT-250 : Oceanography

(2019 Pattern) (Semester - IV)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Question No.1 is compulsory.
- 2) Solve any five question from Q.No.2 to Q.No.7.
- 3) Question 2 to 7 carry equal marks.

Q1) Solve any Five of the following:

[10]

- a) What is oceanography?
- b) Who proposed the theory of continental drift?
- c) What is continental slope?
- d) What is seawater density?
- e) What is biogenous deposit?
- f) Enlist the anthropogenic activity causing pollution in the ocean.
- g) Write the major ocean pollutants.

Q2) a) Describe the development of oceanography in post war period.

[7]

b) Write note on origin of the Pacific Ocean.

[5]

Q3) a) Explain the oceanic trenches.

[7]

b) Describe the composition of sea salt.

[5]

Q4) a) Discuss the hydrogenous marine sediments.

[7]

b) Write in short exploited ocean resources.

[5]

P.T.O.

- Q5)** a) Describe the plate tectonic in the context of origin of ocean basin. [7]
b) Write etiology of marine and oceanic pollution. [5]
- Q6)** a) Explain the factors affecting on temperature of seawater. [7]
b) Write remedial measures for pollution at sea. [5]
- Q7)** Write short notes any Two of the following: [12]
a) Meaning of oceanography
b) Globigerina ooze
c) Atolls
d) Solid ocean resources



Total No. of Questions : 7]

SEAT No. :

PE-5438

[Total No. of Pages : 2

[6515]-403

S.Y. M.A./M.Sc.

GEOGRAPHY

GGUT-251 : Research Methodology

(2019 Pattern) (Semester - IV)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Question No.1 is compulsory.
- 2) Solve any five questions from Q.No.2 to Q.No.7.
- 3) Questions 2 to 7 carry equal marks.

Q1) Solve any five of the following: [10]

- a) What is descriptive research?
- b) Define research design.
- c) Define sample.
- d) What is secondary data?
- e) What is alternative hypothesis?
- f) What is research paper?
- g) Write any two open source software for plagiarism detection.

Q2) a) Describe characteristics of research. [7]

b) Write in brief purpose of research design. [5]

Q3) a) Explain the techniques involved in identification of research problem. [7]

b) Write characteristics of good sample. [5]

Q4) a) Discuss the difference between interview and questionnaire. [7]

b) Write in brief about chi-square test. [5]

Q5) a) Define variable and explain types of variables with suitable examples. [7]

b) Write short note on research funding agencies. [5]

P.T.O.

- Q6)** a) Describe in detail about dissertation and thesis. [7]
b) Write in brief about stratified random sampling. [5]
- Q7)** Write short notes on any two of the following : [12]
a) Literature review
b) Demerits of questionnaire method
c) Objectives of research
d) Regression analysis



Total No. of Questions : 5]

SEAT No. :

PE-5439

[Total No. of Pages : 2

[6515]-404

S.Y. M.A./M.Sc.

GEOGRAPHY

GGUT-252 : Geography of Soils
(2019 Pattern) (Semester - IV)

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

- 1) Question No.1 is compulsory.
- 2) Attempt any three questions from Q.No.2 to Q.No.5.
- 3) Questions 2 to 5 carry equal marks.
- 4) Draw figures/maps wherever necessary.
- 5) Use to map stencil is allowed.

Q1) Solve any five of the following (Around 20 words each): **[5]**

- a) What is Soil?
- b) Define Soil profile.
- c) Write any two chemical characteristics of soil.
- d) What is land suitability?
- e) Name the pollutants of soil pollution.
- f) What is soil conservation?

Q2) a) Describe the nature of soil Geography. **[6]**

b) Write topographical factors of soil formation. **[4]**

Q3) a) Explain primary nutrients in soil. **[6]**

b) Characteristics of Red soil. **[4]**

Q4) a) Describe soil conservation in India. **[6]**

b) Write on land capability classification. **[4]**

P.T.O.

Q5) Write short notes on any two of the following:

[10]

- a) Soil Health
- b) Biological characteristics of soil
- c) Development of Geography of soil



Total No. of Questions : 5]

SEAT No. :

PE-5440

[Total No. of Pages : 2

[6515]-405

S.Y. M.A./M.Sc.

GEOGRAPHY

**GGUT-254 : Political Geography
(2019 Pattern) (Semester - IV)**

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

- 1) *Question No.1 is compulsory.*
- 2) *Attempt any three questions from Q.No.2 to Q.No.5.*
- 3) *Questions 2 to 5 carry equal marks.*
- 4) *Draw figures/maps wherever necessary.*
- 5) *Use of map stencil is allowed.*

Q1) Solve any five of the following (Around 20 words each): **[5]**

- a) Who is the father of political Geography?
- b) Define State.
- c) Define Frontier.
- d) What is Geopolitics?
- e) Write any two examples of interstate water dispute in India.
- f) What is the name of border line between India and China?

Q2) a) Explain the importance of political Geography. **[6]**

b) Describe population as a element of state. **[4]**

Q3) a) Describe the genetic classification of boundary with suitable examples. **[6]**

b) Elaborate the concept of Modern Geopolitics. **[4]**

Q4) a) Discuss the border dispute between India and Pakistan. **[6]**

b) Describe historical development of political Geography. **[4]**

P.T.O.

Q5) Write short notes on any two of the following:

[10]

- a) Heartland
- b) Krishna river water dispute
- c) Nationalism



Total No. of Questions : 5]

SEAT No. :

PE-5441

[Total No. of Pages : 2

[6515]-406

S.Y. M.A./M.Sc.

GEOGRAPHY

**GGUT-255 : Regional Planning
(2019 Pattern) (Semester - IV)**

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

- 1) *Question No.1 is compulsory.*
- 2) *Attempt any three questions from Q.No.2 to Q.No.5.*
- 3) *Questions 2 to 5 carry equal marks.*
- 4) *Draw figures/maps wherever necessary.*
- 5) *Use of map stencil is allowed.*

Q1) Solve any five of the following (Around 20 words each): **[5]**

- a) Define the term 'Region'.
- b) What do you mean by planning of Hierarchy.
- c) What is district level planning?
- d) Write any two advantages of survey.
- e) Define command area.
- f) Write any two prospects for regional planning.

Q2) a) Describe the importance of planning. **[6]**

b) Elaborate the concept of region in planning. **[4]**

Q3) a) Explain the problems in regional disparities. **[6]**

b) Describe the experience of regional planning in India. **[4]**

Q4) a) Give an account of Diagnostic survey in detail. **[6]**

b) Discuss about the five year plans relation in development. **[4]**

P.T.O.

Q5) Write a short notes on any two of the following:

[10]

- a) River Basin
- b) Levels of planning
- c) Regional survey



Total No. of Questions : 7]

SEAT No. :

PE-5442

[Total No. of Pages : 2

[6515]-407

S.Y. M.A./M.Sc.

GEOGRAPHY

GGUT-258 : Geography of World
(2019 Pattern) (Semester - IV)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Question No.1 is compulsory.
- 2) Solve any five questions from Q.No. 2 to Q.No. 7.
- 3) Q.No.2 to Q.No.7 carry equal marks.
- 4) Use to map stencil is allowed.

Q1) Solve any five of the following (Around 20 words each): **[10]**

- a) Who proposed Big Bang theory of evaluation of the earth?
- b) Enlist the rivers of North America Continent.
- c) Give name of any two countries with highest population of Africa.
- d) Name any two major crops of Australia.
- e) Write any two examples of religions conflict in the world.
- f) Write terrorism affected countries in Asia.

Q2) a) Describe major continents and oceans on the earth. **[7]**

b) Explain mineral resources of North America. **[5]**

Q3) a) Describe climatic characteristics of Europe. **[7]**

b) Write a note on border dispute between India and China. **[5]**

Q4) a) Discuss the natural vegetation of Asia. **[7]**

b) Write note on causes of climate change. **[5]**

P.T.O.

- Q5)** a) Describe the role of WTO in world development. [7]
b) Write a note on globalization. [5]
- Q6)** a) Explain physical division of Africa. [7]
b) Describe role of IMF. [5]
- Q7)** Write short note on any two of the following: [12]
a) Food security in world.
b) Issues of migration in world.
c) Wild life of Australia.

